

Transmittal

ROGERS, LOVELOCK & FRITZ, INC.

145 LINCOLN AVENUE P.O. BOX 730 WINTER PARK, FL 32790-0730 TEL.(407) 647-1039 TELEFAX (407) 629-9409

DATE:	March 10, 2003		PROJECT:	P625 - Sigonella Main Ga	te Improvements
TO:		ngineering Command Design Division, Code Cl42	JOB NO.:	2040	
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Architecture
Engineering
Interior Design
Design Automation



FINAL REPORT OF COMPREHENSIVE EVALUATION FOR ASBESTOS-CONTAINING MATERIALS SURVEY, PCB BALLAST, MERCURY VAPOR BULB, AND HEAVY METAL CONTAMINATED COATING,

P-625. BUILDING 701 and 606. SUBSTATION 531, TRANSFORMER 662 SIGONELLA - NAS II SICILY, ITALY

- Prepared By -

MACTEC ENGINEERING AND CONSULTING, INC. f/k/a LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

605 E. Robinson Street, Suite 230 Orlando, Florida 32801

MACTEC PROJECT NO. 40280-2-2008/**/606

February 25, 2003



February 25, 2003

Mr. Charles A. Hutchinson Rogers, Lovelock & Fritz. Inc. 145 Lincoln Avenue Winter Park, Florida 32790-0730

Subject:

Final Report of Asbestos, PCB, Mercury Survey

and Lead Based Paint Screening

Sigonella - NAS II

Sicily, Italy

MACTEC Project 40280-2-2008/**/606

Dear Mr. Hutchinson:

MACTEC Engineering and Consulting, Inc. f/k/a Law Engineering and Environmental Services, Inc. (MACTEC) is pleased to present to Rogers, Lovelock & Fritz, Inc. (RLF) this report of our consulting services for Buildings 701, 606, Substation 531, and Transformer 662 for the renovation and demolition project at the Sigonella - NAS II in Sicily, Italy. This report includes a background, findings of our survey and screening, recommendations and supporting documentation.

We appreciate the opportunity to provide our consulting services on this project. If you have any questions or require additional information or services, please contact us.

Sincerely.

MACTEC ENGINEERING AND CONSULTING, INC.

P 0 0 5 0

Paul D. Santone Project Professional

G:\groups\asbestos\projects\40280-2-2008\2008 rpt.doc

Brian J. Du Chene Brian J. Du Chene Principal Engineer

EXECUTIVE SUMMARY

Under a contract agreement between Rogers, Lovelock & Fritz, Inc. (RLF) and MACTEC Engineering and Environmental Services Inc. f/k/a Law Engineering and Environmental Services, Inc. (MACTEC), RLF retained MACTEC to perform an evaluation for asbestos-containing materials (ACM), Polychlorinated Biphenyl (PCB) bearing oils, Mercury, and a screening for lead based paint at specified buildings affected by the planned renovation and demolition project at the Sigonella - NAS II in Sicily, Italy.

The field services were performed on October 31 and November 1, 2002. The following is a summary of findings for each building.

Building 701

A total of 5 homogenous areas of suspect asbestos-containing materials were observed and sampled within the facility. Asbestos-containing Category I materials were identified within the facility include black mastic under vinyl floor tile. No Category II or friable asbestos-containing materials were identified within the facility.

Painted components within the interior and the exterior of the facility were identified to contain lead concentrations greater than 0.06% by weight. Typical components include exterior door frames and exterior wall.

Mercury vapor bulbs were identified within the facility. No PCB ballast were identified.

Building 606

A total of 4 homogenous areas of suspect asbestos-containing materials were observed and sampled within the northwest office area of the facility. No asbestos containing materials were identified within the facility.

No painted components on the interior and exterior of the facility were identified to contain lead concentrations greater than 0.06% by weight.

No mercury vapor bulbs and PCB ballast were identified within the facility.

Substation 531

A total of 1 homogenous area of suspect asbestos-containing material was observed and sampled within the structure. No asbestos containing material was identified within the structure.

No painted components on the interior and exterior of the structure were identified to contain lead concentrations greater than 0.06% by weight.

Transformer 662

No suspect asbestos containing materials were identified or sampled within this transformer unit.

No painted components on the exterior of the transformer were identified to contain lead concentrations greater than 0.06% by weight.

PCB oils were identified in this transformer.

The following is a table of hazardous materials, quantities and removal cost:

SIGONELLA - NAS II MATERIAL. QUANTITY AND OPINION OF COST ESTIMATE					
Building	Material (ACM)	Quantity	Removal Cost		
701	Black Mastic associated with nonasbestos-containing gray floor tile	1,600 sq.ft.	\$5,600.00		
TOTAL			\$5,600.00		

Notes:

- Cost does not include design specification, project monitoring and final clearance;
- Additional Italian regulatory guidelines for the removal and disposal of hazardous materials over and above NESHAPS and OSHA regulations are included;

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1.0 PROJECT INFORMATION

Under a contract agreement between Rogers, Lovelock & Fritz, Inc. (RLF) and MACTEC Engineering and Environmental Services Inc. f/k/a Law Engineering and Environmental Services, Inc. (MACTEC), RLF retained MACTEC to perform an evaluation for asbestos-containing materials (ACM), Polychlorinated Biphenyl (PCB) bearing oil, Mercury, and a screening for lead based paint at specified buildings affected by the planned renovation and demolition project at Sigonella – Naval Air Station II, Sicily, Italy.

The scope of work for the project was based upon the Scope Of Work For Performing Asbestos, Lead, PCBs and Mercury screenings for Demolition and Renovation Designs provided by RLF and in accordance with MACTEC's Proposal PA-40299-2-0000/1650 Revision 1 dated September 4, 2002.

MACTEC's services for the project were as follows:

- Review existing documents available for the buildings including previous asbestos and lead based paint surveys, sampling, and abatement activities.
- Obtain representative samples of suspect asbestos-containing materials for analysis by Polarized Light Microscopy.
- Conduct a limited lead based paint screening to locate and identify the approximate extents of paints containing lead within each facility.
- Provide recommendations for the hazardous materials abatement portion of the project.

Buildings 701. Northwest Office Area of 606. Substation 531 and Transformer 662 are addressed in this report.

Building 701 is currently utilized as offices. The structure is a metal structure constructed upon a concrete slab. Interior partitions are drywall and have a suspended ceiling with 2'x 2' lay-in tiles. Finishing materials consist of vinyl tile flooring. HVAC is provided by wall-mounted units. The metal roof is supported by steel truss and deck system. This survey was a limited survey based upon the renovation plans.

Building 606 is currently utilized for Security building offices. The northwest office, where the survey was conducted, consisted of interior partitions of drywall and a suspended ceiling with 2'x 2' lay-in tiles.

Substation 531 is a block wall structure with exterior stucco surfacing coating housing the transformer.

Transformer 662 is a metal unit housing the transformer.

2.0 ASBESTOS SURVEY

2.1 INTRODUCTION

This report section addresses the asbestos survey performed at the Sigonella – Naval Air Station II. In this section, we provide the purpose, scope, and tasks for this survey, and summaries the identified asbestoscontaining materials. In Appendix A, we present the following methodologies:

- Standard field and laboratory procedures
- Bulk sampling and assessment procedures
- Assessment procedures
- Conclusions and recommendations for further action

2.2 PURPOSE AND SCOPE

The purpose of this survey was to provide approximate quantities, locations, and the types of ACM present within the various facilities. These findings have been used to develop recommendations for abatement or in-place management of the ACM.

The scope of the asbestos survey for each building included the observation of accessible interior and exterior building components of each building for suspected ACM. The suspect materials observed were categorized by type, homogeneous area, general condition, and friability. A homogeneous area contains material that is uniform in texture and appearance, was installed at one time, and is unlikely to consist of more than one type, or formulation, of material. The United States Environmental Protection Agency (EPA) has defined as "friable" those materials that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

Samplings of homogeneous areas of suspect materials were taken in accordance with current EPA bulk sampling guidelines. This protocol has been found to reduce the likelihood of "false negative" analyses. The samples were analyzed in accordance with Asbestos Hazard Emergency Response Act (AHERA) "first positive analysis" protocol recommended by the EPA.

2.3 SURVEY TASKS

The following tasks were performed as part of this asbestos survey:

- A visual survey was performed to identify homogeneous areas of suspect ACM and to assess their condition, friability, potential for damage/disturbance and their potential to expose occupants and visitors of the facility to asbestos fibers.
- 2. Review and provide a summary documenting previous abatement and asbestos activities to assess existing condition of ACM.
- 3. Samples of accessible suspect materials were collected and analyzed at MACTEC's laboratory following USEPA-recommended procedures. The quantities of sampled and assumed ACM were estimated.
- 4. Report our findings and present recommendations for further actions, if warranted.

Shawn E. Brigham and Paul D. Santone of MACTEC performed the surveys on October 31 and November 1, 2002. MACTEC utilized accredited asbestos inspectors and management planners in accordance with the EPA Model Accreditation Program (MAP) requirements.

The bulk sample analyses were performed by MACTEC's asbestos laboratory located in Atlanta, Georgia. The laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP No. 101066) to analyze samples of suspect asbestos-containing material using polarized light microscopy. The bulk sample analysis was performed in accordance with EPA Method 600/R-93/116.

2.4 CONCLUSIONS AND RECOMMENDATIONS

Asbestos-containing material was identified during the survey. If during demolition activities additional suspect asbestos containing materials are revealed, bulk samples should be obtained to determine asbestos content.

3.0 HEAVY METAL CONTAMINATED COATING SCREENING

3.1 INTRODUCTION

This section of the report describes the paint chip survey performed at the various buildings. In this section, we present:

- Paint Screening Procedure and Results
- Conclusions and Recommendations

3.2 PAINT SCREENING PROCEDURES AND RESULTS

The survey included bulk sampling of coatings on the interior and exterior surfaces of each facility. A walk-through was performed to determine the location and approximate extent of the various homogenous painted surfaces. Representative bulk paint chip samples were collected from the various homogenous paint areas. The services were performed by Mr. Shawn E. Brigham, who has successfully completed an EPA approved lead inspector and risk assessor training course.

Samples of paint, down to the substrate, were obtained by scraping and sent to EMSL Analytical, Inc. in Westmont, New Jersey, an American Industrial Hygiene Association ELPAT accredited laboratory (Lab No. 04653), for analysis by Flame Atomic Absorption using EPA SW-846-7420 or AOAC 5.009 (974.02).

3.3 CONCLUSIONS AND RECOMMENDATIONS

The following recommendations are based upon the test data obtained in this survey. If conditions are discovered during renovations that deviate from that data presented in this report, please contact us so that these conditions can be evaluated.

Currently, there are no regulations that require the removal of lead-based paint which apply to these buildings. However, when these coatings are disturbed (scraping and sanding, etc.), the resulting airborne dust concentrations may exceed the Occupational Safety and Health Administration (OSHA) permissible exposure limits for lead. The OSHA regulations require that exposures to construction workers and general industry personnel be controlled by proper work procedures. Any abatement action should utilize the proper engineering controls and comply with the OSHA Construction Standards for Lead (29 CFR 1926.62.

4.0 ROUGH ORDER OF MAGNITUDE OPINION OF COSTS

MACTEC has prepared a preliminary cost estimate for the removal and disposal of asbestos containing materials and disposal of lead based paint.

The referenced table reflects the following information:

 Any additional Italian regulatory guidelines for the removal and disposal of hazardous materials over and above NESHAPS and OSHA regulations;

The following is a table of asbestos containing materials, and lead-based paint quantities and removal/disposal cost:

	SIGONELLA - NA MATERIAL. QUANTITY AND OPINIC		TE .
Building	Material (ACM)	Quantity	Removal Cost
701	Black Mastic associated with nonasbestos-containing gray floor tile	1.600 sq.ft.	\$5,600.00
701	Lead-Based Paint Allowance	N/A	\$2,500.00
701, 662	PCB Allowance	N/A	\$2,500.00
TOTAL			\$10,600.00

Notes:

• Cost does not include design specification, project monitoring and final clearance.

5.0 QUALIFICATIONS

MACTEC has endeavored to observe the existing conditions within the building using generally accepted procedures. Regardless of the thoroughness of our testing, there is always a possibility some areas containing lead based paint and asbestos-containing materials were overlooked or inaccessible, or are different from those specific test locations.

FACILITY DESCRIPTION

BUILDING 701 – DESCRIPTION

Building 701 is currently utilized as offices. The structure is a metal structure constructed upon a concrete slab. Interior partitions are drywall and have a suspended ceiling with 2' x 2' lay-in tiles. Finishing materials consist of vinyl tile flooring. HVAC is provided by wall-mounted units. The metal roof is supported by steel truss and deck system.

SUMMARY OF ASBESTOS CONTAINING MATERIALS

Table of Confirmed Friable Asbestos-Containing Materials LAW Project 40280-2-2008/**/606 Sigonella – NAS II – Sicily, Italy Building 701

Homogenous material appears:		
Recommended	Response	Action
Potential for	Disturbance	
Current	Condition	
NESHAP	Category	
Material Description		

No Friable Asbestos Containing Materials Identified

Isolate Area and restrict access. Remove as soon as possible. Recommended Response Action Quick Reference:

disturbance.

1 13 man distributions	Program. Repair or remove as soon as possible, or reduce material's potential for disturbance.	nce Program. Repair or schedule removal when practical and cost effective, or reduce material's potential for
Isolate filea and results access, items is as soon as present	Include material in an Operations and Maintenance Program. R	d Maintena
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's potential for disturbance.

Include material in an Operations and Maintenance Program. Repair or schedule removal when practical and cost effective (numbers indicate priority).

Include material in an Operations and Maintenance Program. Continue operations and maintenance until major renovation or demolition requires removal Include material in an Operations and Maintenance Program. Take preventative measures to reduce disturbance (numbers indicate priority). under NESHAP or until hazard assessment factors change. 4-5.

Non-asbestos containing material.

ASBESTOS FIELD DATA FORMS

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CONDITION										
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Certificate No:___

State of Accreditation:

rage of or LH ADOEDOINEM I LOWIN P-635 BASE OPERATIONS SUPPORT Building/Facility: NAS II - STGONELLA, ITALY Project No: 40280-2-2008/X/60 Material Description: 12 v 12" (Gray) Floor TEIE | HOSTEC Date / 11-1-02 smiple No(s): 701-2A 707.23 701.20 7 Location: Area# Quantity Area# Quantity Area# Quantity Qua Area# Functional Spaces Included: NESHAP Category: Friable [] Surfacing Material Type: TSI Misc AMANAsbestos Type 1: CR IRQuantity: 1,600 sq.; Asbestos Type 2: AMCRANTRCONDITION 0-10% 10-25% >25% Localized Distributed throughout area % Damage: Deterioration Water Physical Repairs Renovations .age due to: Description: Not Damaged Damaged Significantly Damaged Overall Rating: POTENTIAL FOR DISTURBANCE Inaccessible Accessible Accessibility: Description: ____Moderate Potential for Contact: High Description: Moderate Influence of Vibration: High Description of Source: No Potential for Air Erosion: Yes Description:

No Supply Return Air

5 6

Medium

Date: Certificate No: State of Accreditation:

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Low

Interial Located in a Plenum? Yes

High

1 2

rall Rating:

RISK ASSESSMENT:

PHYSICAL ASSESSIVIEM I FURIAL rage v or P-635 BASE OPERATIONS SUPPORT Project No: 40280-2-2008/X/60 Building/Facility: NAS IL - STGONELLA, ITALY Material Description: 2x2' LAY IN CETIEUG TIES Date 11-109 701.313 701-30 BANIple No(s): 707.3A 7 ঠ 1_ Location: Area# Area# Quantity Quantity Area# Quantity Qua Area# Functional Spaces Included: NESHAP Category: TSI (Misc) Friable) Surfacing · I Material Type: Asbestos Type 1: ACTTotal CHAMCR ANTRAsbestos Type 2: CHAMCRANTRACTQuantity: CONDITION 0-10% 10-25% >25% Localized Distributed throughout area % Damage:

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Accessibility:	Accessible	Inaccessible	
Description:			
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Description:			
Influence of Vibration:	High	Moderate	Low
Description of Source:			
Potential for Air Erosion:	Yes	No	
Description:			
Interial Located in a Plenum	ı?Yes	No	SupplyReturn Air

Medium

4

Certificate No:____

High

2

3

.rall Rating:

RISK ASSESSMENT:

Low

б

7

State of Accreditation:

5

PHYSICAL ASSESSMENT FURM

P-635 BASE OPERATIONS SUPPORT Building/Facility: NAS IL - STACNELLA, ITALY Project No: 40280-2-2008/X/601

Page 4 of 5

Material Description: (BIACK) VILYI COVE BOSE Date 11-1-09 707.4A 707-413 707-40 smiple No(s): 7 7 Location: Area# Area# Quantity Quantity Area# Quantity Area# Quar Functional Spaces Included: Friable [] NESHAP Category: TSI Misc Surfacing Material Type: AN ACTTotal AMCR IRCHAsbestos Type 1: ACTQuantity: TRAsbestos Type 2: CHAMCRANCONDITION % Damage: _____Deterioration _____Water ____Physical ____Repairs ____Renovations .age due to: Description: Not Damaged Damaged Significantly Damaged Overall Rating: POTENTIAL FOR DISTURBANCE Inaccessible Accessible Accessibility: Description: Moderate High Potential for Contact: Description: Moderate High Influence of Vibration: Description of Source: No Potential for Air Erosion: Yes Description: Supply Return Air _No Internal Located in a Plenum? Yes Low Medium High rall Rating: 5 6 7 8 3 4 1 2 RISK ASSESSMENT: Certificate No: State of Accreditation:

PHYSICAL ASSESSMENT FORM

P-635 BASE OPERATIONS SUPPORT

Building/Facility: NAS III - STACNELLA, ITALY

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	Project No:	40280-2-201	08/X/8C

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Material Type:	Surfaci	ng TSI (Misc			NESHAP Cate	gory: Fri	able	
Asbestos Type 1:	CH	AM CR	AN T	R .	ACT	%	To	al	
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D		Date	C	artificate	No:		State of Accred	itation:	

ASBESTOS BULK-SAMPLING LABORATORY SHEETS



PLM REPORT SUMMARY

Law Engineering and Environmental Services, Inc.

396 Plasters Ave. NE

Atlanta, GA 30324 (404) 873-4761

NVLAP Lab No. 101066 TDH License No. 30-0162

Client:

P-625 Building #701

Law Job No.: 40280-2-2008-606

Project:

Building #701

Report Date: 11/14/2002

Client Project No.: N/A

Sample Date: 11/1/02

Identification:

Asbestos, Bulk Sample Analysis

Test Method:

Polarized Light Microscopy / Dispersion Staining (PLM/DS)

EPA Method 600/R-93/116

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STATEMENT OF LABORATORY ACCREDITATION

These samples were analyzed at the Atlanta Branch of Law Engineering in the Asbestos Laboratory at 396 Plasters Ave. NE, Atlanta, GA, 30324. The laboratory holds accreditation from the National Institute of Standards and Technology (formerly National Bureau of Standards) under the National Voluntary Laboratory Accreditation Program (NVLAP). This laboratory also is licensed and authorized to perform as an Asbestos Laboratory in the State of Texas within the purview of Texas Civil Statutes, Article 4477-3a, as amended, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

The samples were analyzed by polarized light microscopy in general accordance with the procedures described in the Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116. The results of each bulk sample analysis relate only to the material tested. This report shall not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Specific questions concerning bulk sample results shall be directed to the PLM Laboratory Manager.

Analyst:

Carol Findlay

PLM Laboratory Manager: Carol Findlay

Approved Signatory: Carol Stindlay





Law Engineering and Environmental Services, Inc. 396 Plasters Ave. NE Atlanta, GA 30324 (404) 873-4761

NVLAP Lab No. 101066 TDH License No. 30-0162

Client:

P-625 Building #701

Law Job No.: 40280-2-2008-606

Project:

Building #701

Report Date: 11/14/2002

Client Project No.: N/A

Sample Date: 11/1/02

Identification:

Asbestos, Bulk Sample Analysis

Test Method:

Polarized Light Microscopy / Dispersion Staining (PLM/DS)

EPA Method 600/R-93/116

Page 1 of 4

On 11/14/2002, fifteen (15) bulk material samples were submitted by Shawn Brigham for asbestos analysis by PLM/DS.

Lab Sample No.	Sample Description / Location	Asbestos Content
140462	Drywall and Joint Compound Room #8 701-1A	None Detected-Drywall None Detected-Paint
140463	Drywall and Joint Compound Room #1 701-1B	None Detected-Drywall None Detected-Paint
140464	Drywall and Joint Compound Room #2 701-1C	None Detected-Drywall None Detected-Paint
140465	12" x 12" Gray Floor Tile and Mastic Room #1 701-2A	None Detected-Floor Tile None Detected-Leveling Compound 5% Chrysotile-Black Mastic
140466	12" x 12" Gray Floor Tile and Mastic Room #1 701-2B	None Detected-Floor Tile Not Analyzed-Black Mastic
140467	12" x 12" Gray Floor Tile and Mastic Room #1 701-2C	None Detected-Floor Tile None Detected-Yellow Mastic
140468	2' x 2' Lay-In Ceiling Tile Room #8 701-3A	None Detected-Ceiling Tile None Detected-Paint

These samples were analyzed by layers. The first percentage is the overall asbestos content for the sample. Specific layer or component asbestos content is indicated wh relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also state that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Our laboratory utilizes CVAE on a routine basis and does not include point counting unless specifically requested. These reports may not be reproduced except in full. Any unauthorized use or distribution of these reports shall be at the client's and recipient's sole risk and without liability to Law Engineering.



PLM REPORT SUMMARY

Law Engineering and Environmental Services, Inc. 396 Plasters Ave. NE Atlanta, GA 30324 (404) 873-4761

NVLAP Lab No. 101066 TDH License No. 30-0162

Client:

P-625 Building #701

Law Job No.: 40280-2-2008-606

Project:

Building #701

Report Date: 11/14/2002

Client Project No.: N/A

Sample Date : 11/1/02

Identification:

Asbestos, Bulk Sample Analysis

Test Method:

Polarized Light Microscopy / Dispersion Staining (PLM/DS)

EPA Method 600/R-93/116

Page 2 of 4

On 11/14/2002, fifteen (15) bulk material samples were submitted by Shawn Brigham for asbestos analysis by PLM/DS.

Sample Description / Location	Asbestos Content
2' x 2' Lay-In Ceiling Tile Room #1 701-3B	None Detected-Ceiling Tile None Detected-Paint
2' x 2' Lay-In Ceiling Tile Room #1 701-3C	None Detected-Ceiling Tile None Detected-Paint
Black Vinyl Cove Base Room #7 701-4A	None Detected-Cove Base None Detected-Yellow Mastic
Black Vinyl Cove Base Room #7 701-4B	None Detected-Cove Base None Detected-Yellow Mastic None Detected-Black Mastic
Black Vinyl Cove Base Room #7 701-4C	None Detected-Cove Base None Detected-Yellow Mastic
Exterior Wall Caulk Exterior 701-5A	None Detected-Exterior Wall Caulk
Exterior Wall Caulk Exterior 701-5B	None Detected-Exterior Wall Caulk
	2' x 2' Lay-In Ceiling Tile Room #1 701-3B 2' x 2' Lay-In Ceiling Tile Room #1 701-3C Black Vinyl Cove Base Room #7 701-4A Black Vinyl Cove Base Room #7 701-4B Black Vinyl Cove Base Room #7 701-4C Exterior Wall Caulk Exterior 701-5A Exterior Wall Caulk Exterior

These samples were analyzed by layers. The first percentage is the overall asbestos content for the sample. Specific layer or component asbestos content is indicated wh relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also state that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Our laboratory utilizes CVAE on a routine basis and does not include point counting unless specifically requested. These reports may not be reproduced except in full. Any unauthorized use or distribution of these reports shall be at the client's and recipient's sole risk and without liability to Law Engineering.



PLM REPORT SUMMARY

Law Engineering and Environmental Services, Inc. 396 Plasters Ave. NE Atlanta, GA 30324 (404) 873-4761

NVLAP Lab No. 101066 TDH License No. 30-0162

Client:

P-625 Building #701

Law Job No.: 40280-2-2008-606

Project:

Building #701

Report Date: 11/14/2002

Client Project No.: N/A

Sample Date: 11/1/02

Identification:

Asbestos, Bulk Sample Analysis

Test Method:

Polarized Light Microscopy / Dispersion Staining (PLM/DS)

EPA Method 600/R-93/116

Page 3 of 4

On 11/14/2002, fifteen (15) bulk material samples were submitted by Shawn Brigham for asbestos analysis by PLM/DS.

Lab Sample No.	Sample Description / Location	Asbestos Content
140476	Exterior Wall Caulk Exterior 701-5C	None Detected-Exterior Wall Caulk

These samples were analyzed by layers. The first percentage is the overall asbestos content for the sample. Specific layer or component asbestos content is indicated wh relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also state that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Our laboratory utilizes CVAE on a routine basis and does not include point counting unless specifically requested. These reports may not be reproduced except in full. Any unauthorized use or distribution of these reports shall be at the client's and recipient's sole risk and without liability to Law Engineering.

SUMMARY OF LEAD-BASED PAINT FINDINGS

LEAD-BASED PAINT SAMPLING FORM

JOB NO.: 40280-2-2008

TASK: 606 PHASE: **

JOB NAME: P-625 Base Operations Support – Sigonella NAS II. Sicily, Italy

SAMPLED BY: SEB

DATE: 11/1/02 BUILDING: #701

Pb%												
	<0.01		0.20		0.10		<0.01		<0.01			
CONDITION)(-	Ι		}		<u> </u>			
ORIENTATION	West (L)		West (L)		South (M)		West (L)		West (U)			
SUBSTRATE	D		M		M		С		W			
LOCATION / HA	Rm 8		Rm 9 / Exterior		Exterior		Exterior		Rm 8			
COMPONENT	Wall (I)		Door/Frame (I)		Wall (E)		Wall (E)		Window Recess			
COLOR	Lt. Blue	Typical of Interior Office finishes	Brown	5 Exterior access doors and frames	Beige	or coating	Beige	or coating	White	Typical of Interior Office finishes		
FLOOR	0	Typical of Inte	0	5 Exterior acc	0	Typical exterior coating	0	Typical exterior coating	0	Typical of Inte		
SAMPLE NO.	L701-1	COMMENTS	L701-2	COMMENTS	L701-3	COMMENTS	L701-4	COMMENTS	L701-5	COMMENTS	COMMENTS	COMMENTS

SUBSTRATE:			WALL HEIGHT:		
W = Wood	D = Drywall	B = Brick			
M = Metal	P = Plaster	CER = Ceramic	(U) = Upper Wall	(M) = Mid Wall	(L) = Lower Wall
C = Concrete	S = Stucco	WP = Wallpaper			
V = Vinyl	L = Laminate	PL = Plastic			
CONDITION:			COMPONENT ASPECT:		
= Intact	FR = Friction	M = Moisture	(I) = Interior Surface	(E) = Exterior Surface	43
F = Fair	IM = Impact				
P = Poor					

BULK PAINT CHIP LABORATORY REPORT

EMSL Analytical

3 Cooper St., Westmant, NJ 08108

Phone: (856) 858-4800

Fax: 8568589551

Email: gmiller1@emsl.com



Attn:

Shawn Brigham Law Engineering

605 East Robinson St.

Suite 230

Orlando, FL 32801

(407) 246-1566

Phone: 407-246-0066

EMSL Order:

Customer ID:

Customer PO:

Received:

200211342

11/14/02 9:40 AM

LAWE52H

27944

Fax:

Project: P625 NASI /40280-2-2008/x/606 Bldg 701

EMSL Project ID:

Lead in Paint Chips by Flame AAS (SW 846, 7420)

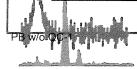
Client Sample Description	Lab ID	Analyzed	Lead Concentration
L-701-1	0001	11/21/02	<0.01 % wt
L-701-2	0002	11/21/02	0.20 % wt
L-701-3	0003	11/21/02	0.10 % wt
L-701-4	0004	11/21/02	<0.01 % wt
L-701-5	0005	11/21/02	<0.01 % wt

Gerold J. Miller, Ph.D. Laboratory Director NJ-NELAP: 04653 AIHA: 100194

or other approved signatory

Reporting limit is 0.01 % wt.

CREDITATIONS: AIHA Environmental Lead Laboratory Approval Program # 100194



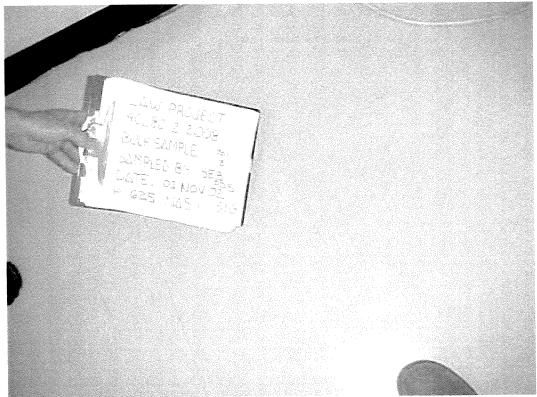
PCB BALLAST AND MERCURY VAPOR LIGHTING DATA FORM

Mercury Light and PCB Ballast Summary Sheet P-625 Base Operations Support – Sigonella NAS II, Sicily, Italy LAW Project 40280-2-2008/**/606

Building # 701

Room	Description	Number of	Total Number	Total Number
Number		Fixtures	of Ballasts	of Bulbs
1	6"x4" Covered	4	0	8
2	6"x4" Covered	l	0	2
3	6"x4' Covered	I	0	2
4	2'x2' Covered	, 1	0	2
4	6"x4' Covered	2	0	8
5	6"x4' Covered	2	0	4
6	6"x4' Covered	2	0	4
7	3'x3' Covered	1	0	4
8	6"x4" Covered	4	0	8
9	6"x4' Covered	1	0	l
10	6"x4' Covered	3	0	6
11	6"x4" Covered	2	0	4
Exterior	-	-	***	
······································				
				. , , , , , , , , , , , , , , , , , , ,
······································				
<u> </u>				

PHOTOGRAPHS



Building 701 – Asbestos-containing 12"x12" gray floor tile with black mastic, Sample 2.



Building 701 Overview

DRAWINGS

BUILDING #701— PLAN VIEW SCALE: NTS



'X' - POSITIVE ASBESTOS-CONTAINING SAMPLE LOCATION

X' - NEGATIVE ASBESTOS-CONTAINING SAMPLE LOCATION

● 'X' - LEAD BASED PAINT SAMPLE LOCATION

FS.-XX - FUNCTIONAL SPACE

BUILDING # 701 - COMMAND CAREER
COUNSELOR AND FINANCIAL SPECIALIST
P-625, SIGONELLA - NASII
SICILY, ITALY

MACTEC

CHECKED BY: PDS

DATE DRAWN: 01.08.03

PROJECT#: 40280-2-200

PHASE: ** TASK: 606

ASBESTOS-LEAD SAMPLE LOCATION PLAN

FIGURE SHEET AS-1

FACILITY DESCRIPTION

BUILDING 606 - DESCRIPTION

Building 606 is currently utilized as the security building offices. The first floor northwest offices, where the survey was conducted, consisted of interior partitions of drywall and a suspended ceiling with $2^{\circ} \times 2^{\circ}$ lay-in tiles. The exterior is a stucco finish.

SUMMARY OF ASBESTOS CONTAINING MATERIALS

Table of Confirmed Friable Asbestos-Containing Materials Sigonella – NAS II – Sicily, Italy Building 606 LAW Project 40280-2-2008/**/606

Homogenous material appears: Recommended Response Potential for Disturbance Condition Current NESHAP Category Material Description

No Friable Asbestos Containing Materials Identified

Action

Recommended Response Action Quick Reference:

2. Include 3. Include

Include material in an Operations and Maintenance Program. Repair or schedule removal when practical and cost effective (numbers indicate priority) disturbance.

Include material in an Operations and Maintenance Program. Continue operations and maintenance until major renovation or demolition requires removal Include material in an Operations and Maintenance Program. Take preventative measures to reduce disturbance (numbers indicate priority). under NESHAP or until hazard assessment factors change. 6-7.

Non-asbestos containing material.

Table of Confirmed Non-Friable Asbestos-Containing Materials LAW Project 40280-2-2008/**/606 Sigonella – NAS III – Sicily, Italy Building 606

Homogenous material appears:		
Recommended	Response	Action
Potential for	Disturbance	
Current	Condition	
NESHAP	Category	
Material Description		

No Friable Asbestos Containing Materials Identified

Recommended Response Action Quick Reference:

Isolate Area and restrict access. Remove as soon as possible.

Include material in an Operations and Maintenance Program	. Repair or remove as soon as possible, or reduce mater
Include material in an Operations and Maintenance Program.	 Repair or schedule removal when practical and cost effective, or reduce material's potential for
disturbance	

Include material in an Operations and Maintenance Program. Repair or schedule removal when practical and cost effective (numbers indicate priority). 4-5 6-7.

Non-asbestos containing material.

Include material in an Operations and Maintenance Program. Take preventative measures to reduce disturbance (numbers indicate priority). Include material in an Operations and Maintenance Program. Continue operations and maintenance until major renovation or demolition requires removal under NESHAP or until hazard assessment factors change.

ASBESTOS FIELD DATA FORMS

PHYSICAL ASSESSMENT FORM

Page of 4

P-635 BASE OPERATIONS SUPPORT
Building/Facility: NAS II - SIGONELLA, ITALY Project No: 40280-2-2008/X/60x Date 10-31-02 Material Description: Drywall Jozut Compound GOG-3C GOG -13 smiple No(s): GOG LA Location: SECURETY OFFECE Quantity Area# Quantity Area# Quantity Qua Area# Area# Functional 100 S.F. TOTOL Spaces Included: NESHAP Category: Friable I Misc Surfacing TSI Material Type: ACT ACT Total ANTRCRAsbestos Type 1: CHAMAMCRANTRQuantity: CHAsbestos Type 2: CONDITION % Damage: _____Deterioration _____Water ____Physical _____Repairs _____Renovations .age due to: Description: ____Not Damaged _____Significantly Damaged Overall Rating: POTENTIAL FOR DISTURBANCE Inaccessible Accessible Accessibility: Description: Moderate ___Low ___ High Potential for Contact: Description: Moderate Low Influence of Vibration: High Description of Source: _/ No Potential for Air Erosion: Yes Description: No Supply Return Air nterial Located in a Plenum? Yes Medium Low High .rall Rating: 3 4 5 6 8 2 1 RISK ASSESSMENT: Date: Certificate No: State of Accreditation:

P-635 BASE OPERATIONS SUPPORT

rage______of____

Building/Facility: NAS IL - SIGONELLA, ITALY Project No: 40280-2-2008/x/60 Material Description: Brown COVE Base & ADMESTVE Date 10-31-02 SANIple No(s): 606 JA Location: SECUTETY OFFICE Area # Quantity Area# Quantity Area# Quantity Оп Area# Functional BOLF: Spaces Included: Surfacing Material Type: TSI Misc NESHAP Category: Friable I Asbestos Type 1: CHAMCR ANACTTRTotal ACTAsbestos Type 2: CHAMCRANIRQuantity: CONDITION % Damage: _____Deterioration _____Water ____Physical _____Repairs _____Renovations .age due to: Description: Overall Rating: Not Damaged Damaged Significantly Damaged POTENTIAL FOR DISTURBANCE / Inaccessible Accessibility: Accessible Description: Moderate Potential for Contact: High Description: / Low Influence of Vibration: ____ High Moderate Description of Source: No Potential for Air Erosion: Yes Description: Supply Ramm Air internal Located in a Plenum? Yes No Low Medium rall Rating: High 5 6 1 2 RISK ASSESSMENT: 3 4 8

Date: Certificate No: State of Accreditation:

PHYSICAL ASSESSIVE IN TOKINI
P-685 BASE OPERATIONS SUPPORT
Building/Facility: NAS II - SIGONELLA, ITALY

rage ____ or __ 4 Project No: 40280-2-2008/x/60

Material Description	n: 2 x 2	LAYES	CELLESC	5 TILL			Da	te <u>io</u>	31-03	
smiple No(s):	606 3A							-		\$50.50pm;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
-	ECUITTY OFFE	The second secon								michaeles-scorecter
Functional Spaces Included:	Area #	Quantity 20 S. F	Area #	f Q	uantity	Area #	Quantit	y Are	ea #	Or.
-										
Material Type:	Surfac	ing TS	SI Misc			NESHAP Ca	-	Friable	··I	
Asbestos Type 1: Asbestos Type 2:			R AN R AN	TR TR	ACT ACT	**************************************		Total Quantity:		Mr. house and take a
CONDITION										
% Damage:	•					Localiz				area
.age due to:		eterioration	- HOUSE AND THE PARTY OF THE PA	Water	Pł	ıysical	Repairs		ations	
Description:	ON CHICAGO CONTRACTOR					рудуу ортан желер төөөөү ишкоону райтуучун ишкоолгон байган тайын а		TO COTO me Conductive SC 2014 A Helicital State of convenience and control of		D*************************************
Overall Rating:		Not I	Damaged	T	amaged	,	_Significantl	y Damaged		
POTENTIAL FO	R DISTURI	BANCE								
Accessibility:		Acce	ssible		accessibl	e				
Description:			e-Humonoconoconsus and a management of the system to any contribution	mendan serrasarian en mande annes d'illi						Dikidenia serreni sian
Potential for Contac	et:	High		.	[oderate		Low			
Description:					anny and printer and a second				*	
Influence of Vibrati	on:	High		N	loderate		Low			
Description of Sour	Ce:			nagyggellene dagleddioddioddioddioddioddioddioddioddioddi					All College Co	100000-00-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0
Potential for Air Er	osion:	Yes			Го					
Description:	TO THE TOWN OWN PROPERTY OF THE PARTY OF THE								The state of the s	
interial Located	in a Plenum?	Yes		N	lo .	Supply	Re	um Air	*	
rall Rating:		——High		<u> </u>	(edium		Low			
RISK ASSESSME	<u>VT</u> :	l 2	3	.*	4	5	6	7	8	
D		-		C	×r	t	State of ha	anditation.		

PHYSICAL ASSESSMENT FORM

P-635 BASE OPERATIONS SUPPORT
Building/Facility: NAS II - STACNELLA, ITALY

Project No: 40280-2-2008/X/60

Material Description	OI: EYTER	ror s	TUCCO)	<u>,</u>	eurossa <u>n er en </u>		Complete Management East	Date	10.31-00	<u>L</u>
smiple No(s):	606 HA	COC	ч в	600	-HC						PROPERTY AND PROPE
-	SECULETY O										
Functional Spaces Included:	Area#	Quant	itv	Area #		Quantity	Area #	Quar	itity	Area #	Ou
Material Type:	Surfa	cing	TSI	Misc			NESHAP (lategory:	Friable	• I	
Asbestos Type 1: Asbestos Type 2:	CH CH	AM AM	CR CR	AN AN	IR IR	ACT ACT		, , ,	Total Quanti		Majdemonton menoperatura param
CONDITION											
% Damage:		0-10%	CARGONIA I COSTO	10-25 %		_>25%	Local	lized	Distribute	d throughou	it area
.age due to:	Handayaran.do wakhisakta kund	Deteriorat	ion	economica nacional de la compansión de l	Water	P	hysical	Repairs	R	Lenovations	
Description:		n adameter valva valva ett protesti instruktiini kirja valva			ar a commence de la c						
Overall Rating:			iot Dan	nged	-HO-CONCOMMONDO	_Damaged	40.000	Significa	ntly Dama	ged	
POTENTIAL FO	OR DISTUR	BANCE									
Accessibility:			Accessib	le	Management and American Company of the Company of t	_Inaccessib	le				
Description:			74. 11. 11. 14. 14. 14. 14. 14. 14. 14. 14. 						APP		
Potential for Conta	ict:	F	ligh		447,000,000	_Moderate	egan savos	Low			
Description:			Olercon - maddines and a			and the state of t		(N - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 	***************************************		
Influence of Vibra	tion:	Į.	High		-passocores without	_Moderate	 	Low			
Description of Sou	irce:	erromania en la companya de la comp									***************************************
Potential for Air E	rosion:	<u> </u>	(ස		economic de la company de la c	_No					
Description:			Malama a pung samap canada asa asa asa as				eo ben'ny tanàna mandritry dia mandritry ny taona 2008–2014. Ilay kaominina dia kaominina dia kaominina dia ka	inalizanisy and from the construction of the c			
** terial Locate	d in a Plenum	?	í es			_No	Supp	-	Return Ai	r	•
rall Rating:		Ē	High			_Medium		Low			
RISK ASSESSME	<u> </u>	I	2	3		4	5	6	7 f Accorditatio	8	

ASBESTOS BULK-SAMPLING LABORATORY SHEETS



Law Engineering and Environmental Services, Inc. 396 Plasters Ave. NE

Atlanta, GA 30324 (404) 873-4761

NVLAP Lab No. 101066 TDH License No. 30-0162

Client:

P-635 Building #606

Law Job No.: 40280-2-2008-606

Project:

Security Building - N.W. Office

Report Date: 11/20/2002

Client Project No.: N/A

Sample Date: 11/1/02

Carol Lindlay

Identification:

Asbestos, Bulk Sample Analysis

Test Method:

Polarized Light Microscopy / Dispersion Staining (PLM/DS)

EPA Method 600/R-93/116

Page 3 of 3

STATEMENT OF LABORATORY ACCREDITATION

These samples were analyzed at the Atlanta Branch of Law Engineering in the Asbestos Laboratory at 396 Plasters Ave. NE. Atlanta, GA, 30324. The laboratory holds accreditation from the National Institute of Standards and Technology (formerly National Bureau of Standards) under the National Voluntary Laboratory Accreditation Program (NVLAP). This laboratory also is licensed and authorized to perform as an Asbestos Laboratory in the State of Texas within the purview of Texas Civil Statutes, Article 4477-3a, as amended, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

The samples were analyzed by polarized light microscopy in general accordance with the procedures described in the Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116. The results of each bulk sample analysis relate only to the material tested. This report shall not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Specific questions concerning bulk sample results shall be directed to the PLM Laboratory Manager.

Analyst:

Carol Findlay

PLM Laboratory Manager: Carol Findlay





Law Engineering and Environmental Services, Inc. 396 Plasters Ave. NE

Atlanta, GA 30324 (404) 873-4761

NVLAP Lab No. 101066 TDH License No. 30-0162

Client:

P-635 Building #606

Law Job No.: 40280-2-2008-606

Project:

Security Building - N.W. Office

Report Date: 11/20/2002

Client Project No.: N/A

Sample Date: 11/1/02

Identification:

Asbestos, Bulk Sample Analysis

Test Method:

Polarized Light Microscopy / Dispersion Staining (PLM/DS)

EPA Method 600/R-93/116

Page 1 of 3

On 11/19/2002, eight (8) bulk material samples were submitted by Shawn Brigham for asbestos analysis by PLM/DS.

Lab Sample No.	Sample Description / Location	Asbestos Content
140691	Drywall and Joint Compound Security Office 606-1A	None Detected-Drywall None Detected-Paint
140692	Drywall and Joint Compound Security Office 606-1B	None Detected-Drywall
140693	Drywall and Joint Compound Security Office 606-1C	None Detected-Drywall None Detected-Paint
140694	Brown Cove Base and Adhesive Security Office 606-2A	None Detected-Cove Base None Detected-Yellow Mastic
140695	2' x 2' Lay-In Ceiling Tile Security Office 606-3A	None Detected-Ceiling Tile None Detected-Paint
140696	Exterior Stucco Exterior Walls 606-4A	None Detected-Exterior Stucco None Detected-Paint
140697	Exterior Stucco Exterior Walls 606-4B	None Detected-Exterior Stucco None Detected-Paint

These samples were analyzed by layers. The first percentage is the overall asbestos content for the sample. Specific layer or component asbestos content is indicated wh relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also state that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Our laboratory utilizes CVAE on a routine basis and does not include point counting unless specifically requested. These reports may not be reproduced except in full. Any unauthorized use or distribution of these reports shall be at the client's and recipient's sole risk and without liability to Law Engineering.



Law Engineering and Environmental Services, Inc. 396 Plasters Ave. NE

Atlanta, GA 30324 (404) 873-4761

NVLAP Lab No. 101066 TDH License No. 30-0162

Client:

P-635 Building #606

Law Job No.: 40280-2-2008-606

Project:

Security Building - N.W. Office

Report Date: 11/20/2002

Client Project No.: N/A

Sample Date: 11/1/02

Identification:

Asbestos, Bulk Sample Analysis

Test Method:

Polarized Light Microscopy / Dispersion Staining (PLM/DS)

EPA Method 600/R-93/116

Page 2 of 3

On 11/19/2002, eight (8) bulk material samples were submitted by Shawn Brigham for asbestos analysis by PLM/DS.

Lab Sample No.	Sample Description / Location	Asbestos Content
140698	Exterior Stucco Exterior Walls 606-4C	None Detected-Exterior Stucco None Detected-Paint

These samples were analyzed by layers. The first percentage is the overall asbestos content for the sample. Specific layer or component asbestos content is indicated wh relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also state that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Our laboratory utilizes CVAE on a routine basis and does not include point counting unless specifically requested. These reports may not be reproduced except in full. Any unauthorized use or distribution of these reports shall be at the client's and recipient's sole risk and without liability to Law Engineering.

SUMMARY OF LEAD-BASED PAINT FINDINGS

LEAD-BASED PAINT SAMPLING FORM

JOB NAME: P-625 Base Operations Support – Sigonella NAS II. Sicily, Italy

JOB NO.: 40280-2-2008

DATE: 10/31/02

TASK: 606 PHASE: **

BUILDING: # 606 – Northwest Office

SAMPLED BY: SEB

SAMPLE NO.	FLOOR	COLOR	COMPONENT	LOCATION/HA	SUBSTRATE	ORIENTATION	CONDITION	Pb%
L606-1	0	Yellow	Wall (I)	Admin Office	D	West (L)	—	<0.01
COMMENTS	Typical Office Area	e Area			Libraria de la constanta de la			
Te06-2	0	Mustard	Wall (I)	Hallway	D	North (L)		<0.01
COMMENTS	Lower 1/3 of	Lower 1/3 of wall in hallway						
Te06-3	0	Beige	Wall (E)	Exterior	Ъ	North (M)		<0.01
COMMENTS	Typical of up	Typical of upper perimeter						
L606-4	0	Brown	Wall (E)	Exterior	Ь	North (L))	<0.01
COMMENTS	Typical of base perimeter	se perimeter						
COMMENTS			Account of the second of the s					
COMMENTS								
COMMENTS								

SUBSTRATE:			WALL HEIGHT:			
W = Wood $M = Metal$ $C = Concrete$ $V - Vinvil$	D = Drywall P = Plaster S = Stucco	B = Brick CER = Ceramic WP = Wallpaper PL = Plastic	(U) = Upper Wall	(M) = Mid Wall	(L) = Lower Wall	
CONDITION:			COMPONENT ASPECT:			
I = Intact $F = Fair$	FR = Friction IM = Impact	M = Moisture	(I) = Interior Surface	(E) = Exterior Surface	٥	

BULK PAINT CHIP LABORATORY REPORT

EMSL Analytical

3 Cooper St., Westmont, NJ 08108

Fax: 8568589551 Email: gmiller1@emsl.com Phone: (856) 858-4800

RECEIVED DEG

9 2002 EMS

Attn:

Fax:

Law Engineering

605 East Robinson St.

Project: NAS II P-635 40280-2-2008/x/606 / Bldg 606

Suite 230

Orlando, FL 32801

(407) 246-1566

Phone: 407-246-0066

Customer ID:

LAWE52H

200211398

Customer PO:

27944

Received:

11/14/02 9:40 AM

EMSL Order:

EMSL Project ID:

Lead in Paint Chips by Flame AAS (SW 846, 7420)

Client Sample Description	Lab ID	Analyzed	Lead Concentration
L606-1	0001	11/21/02	<0.01 % wt
L606-2	0002	11/21/02	<0.01 % wt
L606-3	0003	11/21/02	<0.01 % wt
L606-4	0004	11/21/02	<0.01 % wt

Gerold J. Miller, Ph.D. Laboratory Director NJ-NELAP 04653 AlHA: 100 194

or other approved signatory

Reporting limit is 0.01 % wt.

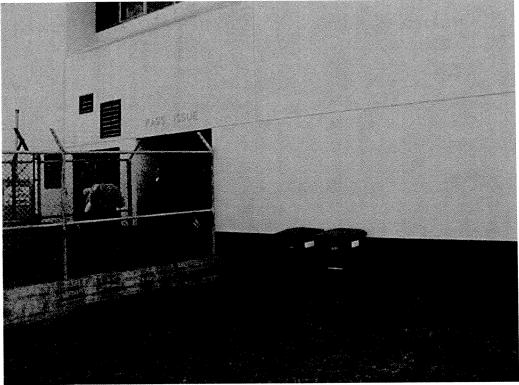
CREDITATIONS: AIHA Environmental Lead Laboratory Approval Program # 100194



PHOTOGRAPHS

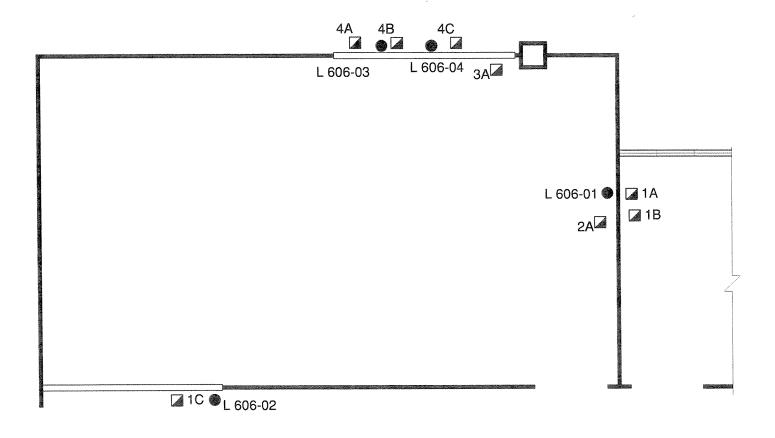


Building 606 – Overview



Building 606 Overview

DRAWINGS



BUILDING #606- PLAN VIEW SCALE: NTS

LEGENI

'X' - POSITIVE ASBESTOS-CONTAINING SAMPLE LOCATION

'X' - NEGATIVE ASBESTOS-CONTAINING SAMPLE LOCATION

● 'X' - LEAD BASED PAINT SAMPLE LOCATION

FS.-XX - FUNCTIONAL SPACE

PROJECT NAME
BUILDING #606
P-625, SIGONELLA - NAS II
SICILY, ITALY

NO. DATE REVISIONS

DRAWN BY: IM
CHECKED BY: PDS
DATE DRAWN: 01.08.03

PROJECT #: 40280—2

PHASE: ***
TASK: 606

ASBESTOS-LEAD SAMPLE LOCATION PLAN

FIGURE SHEE

FACILITY DESCRIPTION

TRANSFORMER 662 - DESCRIPTION

Transformer 662 is housed in a metal unit.

SUMMARY OF ASBESTOS CONTAINING MATERIALS

Table of Confirmed Friable Asbestos-Containing Materials Sigonella – NAS II – Sicily, Italy Substation 531 LAW Project 40280-2-2008/**/606

NESHAP	
Material Description	

Current Potential for R Condition Disturbance

Recommended Response

Homogenous material appears:

Action

No Friable Asbestos Containing Materials Identified

Recommended Response Action Quick Reference:

	ŕ
Isolate Area and restrict access. Remove as soon as possible.	٤
Remove as so	
access.	
d restrict	
Area an	•
solate.	•

Include material in an Operations and Maintenance Program. Repair or schedule removal when practical and cost effective, or reduce material's potential for Include material in an Operations and Maintenance Program. Repair or remove as soon as possible, or reduce material's potential for disturbance. disturbance.

include material in an Operations and Maintenance Program. Repair or schedule removal when practical and cost effective (numbers indicate priority) Include material in an Operations and Maintenance Program. Take preventative measures to reduce disturbance (numbers indicate priority). 5-1

Include material in an Operations and Maintenance Program. Continue operations and maintenance until major renovation or demolition requires removal under NESHAP or until hazard assessment factors change. 6-7.

^{9.} Non-asbestos containing material.

Table of Confirmed Non-Friable Asbestos-Containing Materials LAW Project 40280-2-2008/**/606 Sigonella - NAS II - Sicily, Italy Substation 531

Potential for	Disturbance
Current	Condition
NESHAP	Category
Material Description	

Recommended Response

Action

Homogenous material appears:

No Friable Asbestos Containing Materials Identified

Recommended Response Action Quick Reference:

	Program. Repair or remove as soon as possible, or reduce material's potential for disturbance.
Isolate Area and restrict access. Remove as soon as possible.	Include material in an Operations and Maintenance Program. Req
	7

include material in an Operations and Maintenance Program. Repair or schedule removal when practical and cost effective, or reduce material's potential for disturbance. 2 6

Include material in an Operations and Maintenance Program. Continue operations and maintenance until major renovation or demolition requires removal Include material in an Operations and Maintenance Program. Repair or schedule removal when practical and cost effective (numbers indicate priority) Include material in an Operations and Maintenance Program. Take preventative measures to reduce disturbance (numbers indicate priority). 4-5. 6-7. 8.

under NESHAP or until hazard assessment factors change. Non-asbestos containing material.

ASBESTOS FIELD DATA FORMS

PHYSICAL ASSESSMENT FURM P-635 BASE OPERATIONS SUPPORT

Page of

Project No: 40280-2-2008/X/60. Building/Facility: NAS II - SIGONELLA, ITALY Material Description: EXTERIOR STUCCO Date 11.1.02 537-70 531.1A 531.18 smiple No(s): Location: EXTEREOF Area# Quantity Area# Area# Quantity Quantity Ora Area# Functional Spaces Included: NESHAP Category: Friable I TSI Misc Surfacing Material Type: ANIRACT Total CH AMCRAsbestos Type 1: ACTANIRQuantity: Asbestos Type 2: CH AM CRCONDITION 0-10% 10-25% >25% Localized Distributed throughout area % Damage: age due to: Description: Not Damaged Damaged Significantly Damaged Overall Rating: POTENTIAL FOR DISTURBANCE Accessible Inaccessible Accessibility: Description: / Low High Moderate Potential for Contact: Description: Moderate Influence of Vibration: High Description of Source: No Yes Potential for Air Erosion: Description: ____Supply ____Return Air No "sterial Located in a Plenum? Yes Medium Low rall Rating: High 3 4 5 6 7 8 1 2 RISK ASSESSMENT: Date: Certificate No: State of Accreditation:

ASBESTOS BULK-SAMPLING LABORATORY SHEETS



Law Engineering and Environmental Services, Inc. 396 Plasters Ave. NE Atlanta, GA 30324 (404) 873-4761

NVLAP Lab No. 101066 TDH License No. 30-0162

Client:

P-625 Building #531 (SUB STAFTON)

Law Job No.: 40280-2-2008-606

Project:

Sub Station

Report Date: 11/15/2002

Client Project No.: N/A

Asbestos, Bulk Sample Analysis

Sample Date: 11/1/02

Identification: Test Method:

Polarized Light Microscopy / Dispersion Staining (PLM/DS)

EPA Method 600/R-93/116

Page 2 of 2

STATEMENT OF LABORATORY ACCREDITATION

These samples were analyzed at the Atlanta Branch of Law Engineering in the Asbestos Laboratory at 396 Plasters Ave. NE, Atlanta, GA, 30324. The laboratory holds accreditation from the National Institute of Standards and Technology (formerly National Bureau of Standards) under the National Voluntary Laboratory Accreditation Program (NVLAP). This laboratory also is licensed and authorized to perform as an Asbestos Laboratory in the State of Texas within the purview of Texas Civil Statutes. Article 4477-3a, as amended, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

The samples were analyzed by polarized light microscopy in general accordance with the procedures described in the Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116. The results of each bulk sample analysis relate only to the material tested. This report shall not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Specific questions concerning bulk sample results shall be directed to the PLM Laboratory Manager.

Analyst:

Carol Findlay

PLM Laboratory Manager: Carol Findlay

Carol Findlay





Law Engineering and Environmental Services, Inc. 396 Plasters Ave. NE

Atlanta, GA 30324 (404) 873-4761

NVLAP Lab No. 101066 TDH License No. 30-0162

Client:

P-625 Building #531 (SuBSTATION)

Law Job No.: 40280-2-2008-606

Project:

Sub Station

Report Date: 11/15/2002

Client Project No.: N/A

Sample Date: 11/1/02

Identification:

Asbestos, Bulk Sample Analysis

Test Method:

Polarized Light Microscopy / Dispersion Staining (PLM/DS)

EPA Method 600/R-93/116

Page 1 of 2

On 11/14/2002, three (3) bulk material samples were submitted by Shawn Brigham for asbestos analysis by PLM/DS.

Lab Sample No.	Sample Description / Location	Asbestos Content
140477	Exterior Stucco Exterior Walls 531-1A	None Detected-Exterior Stucco
140478	Exterior Stucco Exterior Walls 531-1B	None Detected-Exterior Stucco
140479	Exterior Stucco Exterior Walls 531-1C	None Detected-Exterior Stucco

These samples were analyzed by layers. The first percentage is the overall asbestos content for the sample. Specific layer or component asbestos content is indicated wh relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also state that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Our laboratory utilizes CVAE on a routine basis and does not include point counting unless specifically requested. These reports may not be reproduced except in full. Any unauthorized use or distribution of these reports shall be at the client's and recipient's sole risk and without liability to Law Engineering.

SUMMARY OF LEAD-BASED PAINT FINDINGS

LEAD-BASED PAINT SAMPLING FORM

JOB NO.: 40280-2-2008 JOB NAME: P-625 Base Operations Support – Sigonella NAS II. Sicily, Italy

PHASE: ** TASK: 606

SAMPLED BY: SEB **DATE:** 11/1/02 **BUILDING:** # 531 - Substation

SAMPLE NO.	FLOOR	COLOR	COMPONENT	LOCATION / HA	SUBSTRATE	ORIENTATION	CONDITION	Pb%
L531-1	0	Beige	Wall (E)	Exterior	P	North (L)		<0.01
COMMENTS								
L531-2	0	Brown	Wall (E)	Exterior	Ъ	West (L)		<0.01
COMMENTS								
L531-3		White	Interior	Northeast Wall and Ceiling	C	NE())(<0.01
COMMENTS								
COMMENTS								
COMMENTS								
COMMENTS								
COMMENTS								

SUBSTRATE:			WALL HEIGHT:		
W = Wood $M = Metal$	D = Drywall $P = Plaster$	B = Brick $CER = Ceramic$	(U) = Upper Wall	(M) = Mid Wall	(L) = Lower Wall
C = Concrete	S = Stucco	WP = Wallpaper			
V = Vinyl	L = Laminate	PL = Plastic			
CONDITION:			COMPONENT ASPECT:		
I = Intact F = Fair	FR = Friction IM = Impact	M = Moisture	(I) = Interior Surface	(E) = Exterior Surface	

BULK PAINT CHIP LABORATORY REPORT

EMSL Analytical

3 Cooper St., Westmont, NJ 08108

Phone: (856) 858-4800

Fax: 8568589551

Email: gmiller1@emsl.com



Attn:

Fax:

Shawn Brigham

Law Engineering

605 East Robinson St. Suite 230

Orlando, FL 32801

(407) 246-1566

Project: P-625 NAS II/ 40280-2-2008/x/606/ Bldg 531

Phone: 407-246-0066

EMSL Order:

EMSL Project ID:

Customer ID:

Customer PO:

Received:

200211344

11/14/02 9:40 AM

LAWE52H

27944

Lead in Paint Chips by Flame AAS (SW 846, 7420)

Client Sample Description	Lab ID	Analyzed	Lead Concentration
L531-1	0001	11/20/02	<0.01 % wt
L531-2	0002	11/20/02	<0.01 % wt
L531-3	0003	11/20/02	<0.01 % wt

Gerold J. Miller, P. Laboratory Pires NJ-NELAP: 04653 AIHA: 100194

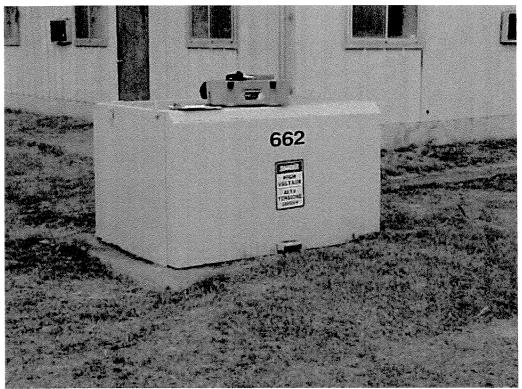
or other approved signatory

Reporting limit is 0.01 % wt.

CREDITATIONS: AIHA Environmental Lead Laboratory Approval Program # 100194



PHOTOGRAPHS



Transformer 662 - Overview



Transformer 662 – Lead-Based Paint Sample Number L-1, beige metal transformer housing.

DRAWINGS

TRANSFORMER (662) L 662-01

TRANSFORMER #662- PLAN VIEW SCALE: NTS



'X' − LEAD BASED PAINT SAMPLE LOCATION

- ASBESTOS-CONTAINING PCB OIL

TRANSFORMER #662
P-625, SIGONELLA - NAS II

DRAWN BY: IM
CHECKED BY: POS DATE DRAWN: 01.08.03
PROJECT #: 40280-2-2008
PHASE: **

ASBESTOS LOCATION PLAN

AS-1

FACILITY DESCRIPTION

Substation 531 - DESCRIPTION

Substation 531 is housed in a block wall structure with exterior stucco surface coating.

SUMMARY OF ASBESTOS CONTAINING MATERIALS

Table of Confirmed Friable Asbestos-Containing Materials LAW Project 40280-2-2008/**/606 Sigonella – NAS II – Sicily, Italy Transformer 662

Homogenous material appears:		
Recommended	Response	A 06.0 0
Potential for	Disturbance	
Current	Condition	
NESHAP	Category	
Material Description		

No Friable Asbestos Containing Materials Identified

Recommended Response Action Quick Reference:

- Isolate Area and restrict access. Remove as soon as possible.
- include material in an Operations and Maintenance Program. Repair or remove as soon as possible, or reduce material's potential for disturbance.
- include material in an Operations and Maintenance Program. Repair or schedule removal when practical and cost effective, or reduce material's potential for disturbance.
 - Include material in an Operations and Maintenance Program. Repair or schedule removal when practical and cost effective (numbers indicate priority) Take preventative measures to reduce disturbance (numbers indicate priority). Include material in an Operations and Maintenance Program. 4-5. 6-7. 8.
- Include material in an Operations and Maintenance Program. Continue operations and maintenance until major renovation or demolition requires removal under NESHAP or until hazard assessment factors change.
- Non-asbestos containing material.

Table of Confirmed Non-Friable Asbestos-Containing Materials LAW Project 40280-2-2008/**/606 $Sigonella-NAS\ \Pi-Sicily,\ Italy$ Transformer 662

Homogenous material appears:		
Recommended	Response	Action
Potential for	Disturbance	
Current	Condition	
NESHAP	Category	
Material Description		

No Friable Asbestos Containing Materials Identified

Recommended Response Action Quick Reference:

Isolate Area and restrict access. Remove as soon as possible. Include material in an Operations and Maintenance Program. Repair or remove as soon as possible, or reduce material's potential for disturbance. Include material in an Operations and Maintenance Program. Repair or schedule removal when practical and cost effective, or reduce material's potential for disturbance.
--

Include material in an Operations and Maintenance Program. Repair or schedule removal when practical and cost effective (numbers indicate priority). Include material in an Operations and Maintenance Program. Take preventative measures to reduce disturbance (numbers indicate priority). 4-5. 6-7.

Include material in an Operations and Maintenance Program. Continue operations and maintenance until major renovation or demolition requires removal under NESHAP or until hazard assessment factors change.

Non-asbestos containing material.

ASBESTOS FIELD DATA FORMS

ASBESTOS BULK-SAMPLING LABORATORY SHEETS

SUMMARY OF LEAD-BASED PAINT FINDINGS

LEAD-BASED PAINT SAMPLING FORM

JOB NAME: P-625 Base Operations Support – Sigonella NAS II. Sicily, Italy

JOB NO.: 40280-2-2008

PHASE: ** TASK: 606

BUILDING: # 662 - Transformer

DATE: 11/1/02

SAMPLED BY: SEB

Pb%	<0.01								
CONDITION	F-M								
ORIENTATION	Top								
SUBSTRATE	M								
LOCATION/HA	Exterior								
COMPONENT	Unit								
COLOR	Beige	Typical of all exterior surfaces							
FLOOR	0	Typical of all							
SAMPLE NO.	L662-1	COMMENTS	COMMENTS	COMMENTS	COMMENTS	COMMENTS	COMMENTS	COMMENTS	

od al P = Plaster Srete L = LaminateD = Drywall CER = Ceramic WP = Wallpaper PL = Plastic(U) = Upper Wall AP = Wall Wall PL = Plastic(M) = Mid Wall AP = Mid WallGOMPONENT ASPECT: IM = ImpactCOMPONENT ASPECT: (I) = Interior Surface(E) = Exterior Surface	SUBSTRATE:			WALL HEIGHT:		
te S = Stucco WP = Wallpaper L = Laminate PL = Plastic ON: FR = Friction M = Moisture (1) = Interior Surface	W = Wood $M = Metal$	D = Drywall $P = Plaster$	B = Brick CER = Ceramic	(U) = Upper Wall	(M) = Mid Wall	(L) = Lower Wall
COMPONENT ASPECT: FR = Friction	C = Concrete	S = Stucco	WP = Wallpaper pt = plactic			
FR = Friction	V — V 11131					
FR = Friction $M = Moisture$ $M = Impact$	CONDITION:	•		COMPONENT ASPECT:		
	I = Intact	FR = Friction	M = Moisture	(I) = Interior Surface	(E) = Exterior Surface	
	F = Fair	IM = Impact	~			
$\Gamma - \Gamma 00$	P = Poor					

BULK PAINT CHIP LABORATORY REPORT

EMSL Analytical

3 Cooper St., Westmont, NJ 08108

Phone: (856) 858-4800 Fax: 8568589551 Email: gmiller1@emsl.com



Attn:

Fax:

Shawn Brigham

Law Engineering

605 East Robinson St.

Project: P-625 NAS II /40280-2-2008/x/606/ Bldg 662

Suite 230

Orlando, FL 32801

(407) 246-1566

Phone: 407-246-0066

Customer ID:

LAWE52H

Customer PO: 27944

Received:

11/14/02 9:40 AM

200211343

EMSL Order: EMSL Project ID:

Lead in Paint Chips by Flame AAS (SW 846, 7420)

LeadConcentration

Client Sample Description

Lab ID

Analyzed

L662-1

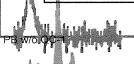
0001 11/21/02 <0.01 % wt

Gerold J. Miller, Ph.D. Laboratory Director NJ-NELAP 04653 AIHA: 100194

or other approved signatory

Reporting limit is 0.01 % wt.

CREDITATIONS: AIHA Environmental Lead Laboratory Approval Program # 100194



Page 1 of

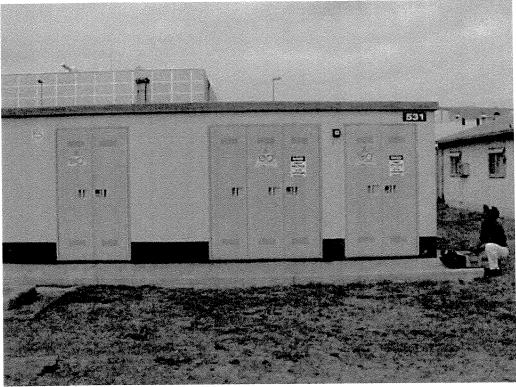
PCB BALLAST AND MERCURY VAPOR LIGHTING DATA FORM

Mercury Light and PCB Ballast Summary Sheet P-625 Base Operations Support – Sigonella NAS II, Sicily, Italy LAW Project 40280-2-2008/**/606

Transformer # 662

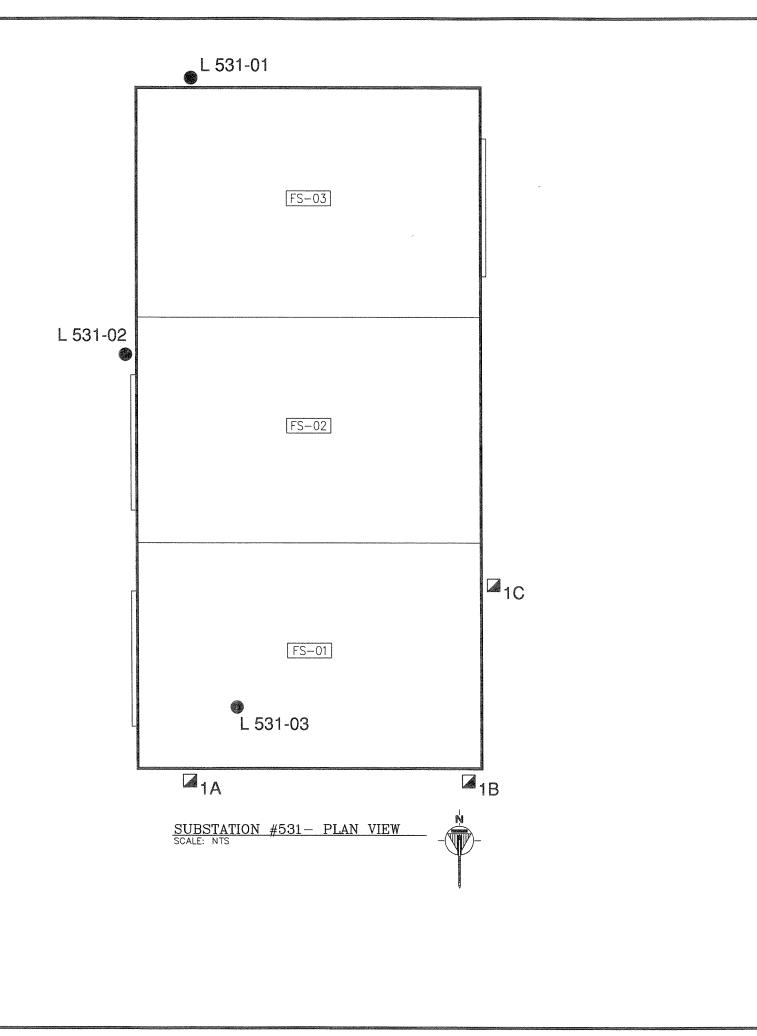
Room Number	Description	Number of Fixtures	Total Number of Ballasts	Total Number of Bulbs
	No PCB Ballast or Mercury Vapor Lighting at Transformer 662			
	Transformer 662 contains PCB oils.	1		

PHOTOGRAPHS



Substation 531 – Overview

DRAWINGS



MACTEC ENGINEERING AND CONSULTING, 605 E. ROBINSON STREET, SUITE 230 ORLANDO PHONE: (407) 246-0366 FAX; (407)246-156

SUBSTATION #531
P-625, SIGONELLA - NAS II

DRAWN BY: IM
CHECKED BY: P D S
DATE DRAWN: 01.08.03
PROJECT #: 40280-2-200

ASBESTOS LEAD SAMPLE LOCATION PLAN

AS-1

'X' - POSITIVE ASBESTOS-CONTAINING SAMPLE LOCATION

 ${\color{red} igwedge}$ 'X' - NEGATIVE ASBESTOS-CONTAINING SAMPLE LOCATION

*X' - LEAD BASED PAINT SAMPLE LOCATION

FS.-XX - FUNCTIONAL SPACE

A.1 BULK SAMPLING AND LABORATORY ANALYSIS PROTOCOL

The survey was performed by observing accessible exposed building materials throughout the facility while concentrating on mechanical rooms, ventilation systems, and accessible overhead areas.

The bulk sampling procedures utilized for the collection of suspect materials first required the establishment of a homogeneous sampling area. A *homogeneous sampling area* is defined as an area of material of the same color and texture applied during the same general time period. The individual sampling areas were then examined and representative samples of suspect materials were randomly taken.

Samples were collected in accordance with the United States Environmental Protection Agency's [USEPA] Asbestos Hazard Emergency Response Act [AHERA] Protocol. The samples were collected in accordance with the following schedule:

MATERIAL	QUANTITY	NO OF SAMPLES
SURFACING	<1.000 SF	3
	1,000 - 4,999 SF	5
	>5,000 SF	7
THERMAL SYSTEM INSULATION	<6 SF or 6 LF	<u> </u>
	>6 SF or 6 LF	3

Non-essential personnel were restricted from the area where the sampling was performed. Members of the field team wore their respirators when sampling took place and the sampler wore gloves, where appropriate. When ceiling tiles were moved, they were moved slowly and kept horizontal.

The area sampled was misted with amended water from a spray bottle and misted during sampling to minimize fiber release. The material was misted and not saturated with water. Extremely wet samples make asbestos analysis difficult and time consuming and may affect analysis by dissolving sample components. The suspect asbestos-containing material was penetrated with a knife, forceps, vial, or corer down to the structural member. The tool that minimized the disturbance to the sampled material, and was least likely to

cause fiber release, and was most efficient for sampling the particular material at hand was used. Asbestos-containing materials are often layered with asbestos product being located in one of those layers. The sample size is approximately 2 sq. cm. in area. Attempts were made to maintain the integrity of all samples. Whenever possible, a sample was collected from previously damaged locations in order to minimize fiber release.

If quality assurance sampling was required as part of this project, then a Quality Assurance Sample was collected immediately adjacent to the primary sample according to the following rules: a) Collect two (2) QA samples every twentieth (20th) primary sample. b) Collect two (2) QA samples per building if fewer than twenty (20) primary samples are collected.

Each sample was placed in a clear plastic container, the outside wet wiped, the cap sealed, and the container labeled. The sample site was sprayed with encapsulant. Duct tape was placed over the sample site to repair the area. The sampling tool was thoroughly cleaned with a damp disposal towel. The sample area was wet-wiped of any fallen debris. If disposable protective clothing was worn, it was removed slowly and turned inside out during removal. All potentially contaminated rags, debris, suits, and/or plastic sheeting was placed into 6-mil plastic bags with asbestos warning labels. These waste bags were returned to the MACTEC's project manager for proper disposal. The respirators were wet-wiped clean and placed in their proper storage containers. The entire area was left in its original condition (i.e. ceiling tiles back in place, lights off, floor clean, furniture replaced, if moved, etc.).

Once a sample had been taken, it was carefully identified with an individual sample number according to the following: a) with a permanent marker label on the sample container. b) A sample field ID number on the site and on the Bulk Sample Chain of Custody Form.

Bulk samples collected during the site survey were returned to a laboratory accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) administered by the National Institute of Standards and Technology (NIST). The samples were analyzed by Polarized Light Microscopy (PLM) coupled with dispersion staining in accordance with EPA Method EPA/600/R-93/116. Polarized Light Microscopy is an analytical method for asbestos identification which depends on the unique optical properties of mineral forms in the samples, and specifically identifies the various asbestos types. This is the mandated method of analysis by EPA for asbestos identification in bulk samples.

The results of the bulk sample analyses are reported in percent asbestos by weight utilizing visual estimation. In accordance with EPA. OSHA, and State of Florida asbestos regulations, materials containing greater than one percent regulated asbestiform minerals are reported as asbestos-containing materials. In accordance with the EPA guidance document "Asbestos NESHAP Clarification Regarding Analysis of Multi-Layered Systems" (Federal Register 542, January 5, 1994), samples of wallboard and joint compound were analyzed as a composite wall system. The laboratory analyzed the wallboard and joint compound separately and then calculated the composite percentage by weight. For example, if no asbestos was detected in the wallboard portion of the sample and the joint compound was found to contain 2% chrysotile asbestos, the result was reported as less than one percent for the composite wall system.

The EPA NESHAP requires that point count analysis be performed for friable samples found to contain less than 10 percent asbestos. As discussed in the EPA Guidance Memorandum, "Clarification of Asbestos NESHAP Requirements to perform Point Counting" dated May 8, 1991, point count analysis is required to confirm the asbestos content of friable materials found to contain one percent or less asbestos and, therefore, not subject to regulation under the NESHAP. Point count analysis was not included in the scope of this survey. For the purposes of this survey, material found to contain greater than one percent to ten percent were assumed to contain asbestos in amounts greater than one percent. Friable materials found to contain one percent or less asbestos by PLM, should have their asbestos contents confirmed by point counting prior to renovation or demolition regulated by the NESHAP which would disturb them.

The EPA guidance document, "Advisory regarding Availability of and Improved Asbestos Bulk sample Analysis Test Method: Supplementary information on Bulk sample Collection and Analysis" (Federal Register 38970-38971, August 1, 1994) which recommends the use of the revised PLM method (which was employed on this project) and the use of Transmission Electron Microscopy (TEM) to confirm the quantity of asbestos detected in floor tile samples. TEM analysis of floor tile samples was not included in the scope of services for this project.

A.1.1 CHAIN OF CUSTODY PROCEDURES

In order to document the chain of custody for each sample, special documentation procedures were utilized during the survey and laboratory analysis. Upon collection in the field, each sample was recorded on the Chain of Custody form for each facility. This form is then included with the shipment of samples to the

laboratory. The chain of custody form is signed by a representative of the laboratory confirming receipt of all samples listed. The chain of custody form for each sample shipment is included with the laboratory analysis sheets in Appendix A to this report.

A.2 SUPPLEMENTAL BULK SAMPLING AND ASSESSMENT PROCEDURES

The supplemental bulk sampling was accomplished to identify potential asbestos-containing materials (ACM) not identified in the previous survey. The survey was performed by observing accessible exposed building materials throughout the facility while concentrating on mechanical rooms, ventilation systems, and accessible overhead areas. We must emphasize that it is not possible to look within every location of a building. The visual survey determines only general locations of suspect materials but does not determine the exact boundaries. No attempt was made to disassemble equipment or demolish structural elements and finishes as this is beyond the scope of our authorized services. Visual observations were made at convenience locations for the presence of floor tile below existing carpet. Due to these limitations, wall voids, building cavities and mechanical equipment, and other areas may contain unreported asbestos-containing materials. The primary purpose of the survey was to locate, identify, and assess friable (or potentially friable) building materials which may contain asbestos minerals. Friable materials are those which can be pulverized or reduced to powder by hand pressure.

A.3 REINSPECTION AND ASSESSMENT PROCEDURES

The survey was performed by observing all known or assumed ACM identified in the original Asbestos Survey. These observations involved a multi-step assessment procedure. In order to provide for consistent assessments among MACTEC personnel, we have adopted the seventh draft of the EPA's "Guidance for Assessing and Managing Exposure to Asbestos in Buildings" document as a guideline. This document is currently used as text in the EPA approved inspector accreditation programs at the TREEO Center of the University of Florida, the GTRI extension of Georgia Tech, as well as numerous other AHERA accreditation courses nationwide.

A.3.1 ASSESSMENT

As the first step in assessment, the suspect material was classified as one of the three general material types; (1) surfacing material; (2) thermal system insulation; or (3) miscellaneous material, as defined in 40 CFR, Part 763.

- (1) surfacing material: ACM sprayed or troweled on surfaces, such as acoustical plaster on ceilings and fireproofing material on structural members;
- (2) thermal system insulation: ACM applied to pipes, boilers, tanks, ducts, etc. to prevent heat loss or gain or water condensation; and
- (3) miscellaneous material: "other" ACM for example, ceiling and floor tiles, wallboard, and cement pipe.

The material was further categorized as friable or non-friable, based on the EPA's definition of a friable material, "when dry, may be crumbled, pulverized, or reduced to powder by hand pressure". Materials that were categorized as non-friable were not assessed beyond this point in accordance with the protocol specified in 40 CFR, Part 763.

Next, for friable materials, an estimation of the material's current condition and percent damage was performed so that the material could be defined as undamaged, damaged, or significantly damaged. Inspectors assigned a relative percent damage to the ACM based on it's physical appearance at the time of the survey. This damage estimate was further defined as being localized damage or distributed damage. Materials observed to have 10 percent or more damage that was distributed over the homogeneous area or less than 25 percent or more damage of the homogeneous area found at a localized area were considered to have "significant damage". Materials with less than 10 percent damage that was distributed over the homogeneous area or comprising 25 percent of the homogeneous area found at a localized area were considered to be "damaged". These semi-quantitative definitions were then used to group friable ACM into one of the following categories.

<u>Damaged Friable Surfacing ACM</u> - Friable surfacing ACM which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or which has delaminated such that its bond to the substrate (adhesion) is inadequate, or which, for any other reason, lacks fiber cohesion or adhesion qualities. Such

damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substance; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated water stains, scrapes, gouges, mars, or other signs of physical injury on the ACM. Asbestos debris originating from the ACM in question may also indicate damage.

<u>Significantly Damaged Friable Surfacing ACM</u> - Damaged friable surfacing ACM in a functional space where the damage is extensive and severe.

Damaged or Significantly Damaged Thermal System Insulation - Thermal system insulation on pipes, boilers, tanks, ducts, and other thermal system insulation equipment where the insulation has lost its structural integrity, or its covering in whole or in part, is crushed, water-stained, gouged, punctured, missing, or not intact such that is not able to contain fibers. Damage may be further illustrated by occasional punctures, gouges, or other signs or physical injury to ACM; occasional water damage on the protective coverings/jackets; or exposed ACM ends or joints. Asbestos debris originating from the ACBM in question may also indicate damage.

Damaged Friable Miscellaneous ACM - Friable miscellaneous ACM which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or, if applicable, which has delaminated such that its bond to the substrate (adhesion) is inadequate or which for any other reason lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate, water damage; significant or repeated water stains, scrapes, gouges, mars, or other signs of physical injury on the ACM. Asbestos debris originating from the ACBM in question may also indicate damage.

<u>Significantly Damaged Friable Miscellaneous ACM</u> - Damaged friable miscellaneous ACM where the damage is extensive and severe.

<u>Undamaged ACM</u> - ACM with no visible damage or deterioration, or showing only very limited damage or deterioration.

In addition to a relative percent of damage, a further explanation of the type of damage was also performed by characterizing the damage into one of the following general categories.

<u>Deterioration</u> - ACM may deteriorate with age as a result of either poor quality of installation or environmental influences (e.g., heat, humidity, other atmospheric contaminants). These factors affect the cohesive strength of the ACM or adhesion to the substrate (for surfacing material) or the integrity of the protective covering (for thermal insulation). Deterioration of surfacing material can results in increased dusting or fallout of material from the ACM surface, cracking, delamination (i.e., separation into layers), or adhesive failure where the material pulls away from the substrate. Hanging material or coverings and powder or debris on horizontal surfaces are evidence of deterioration.

<u>Physical Damage or Renovation</u> - Accidental or deliberate contact with ACM can result in damage. Evidence of physical damage includes finger marks, graffiti, pieces dislodged or missing, scrape marks from moveable equipment or furniture, or ripped jackets or protective coverings. Powder or debris on floors, shelves, or other horizontal surfaces often confirms the damage and may indicate how recently it occurred.

Water Damage - Water damage is usually caused by roof leaks (particularly in buildings with flat roofs) or plumbing/piping leaks. High humidity in the vicinity of pools, locker rooms, and lavatories can also cause water damage. Water can dissolve and wash out binders in ACM causing this material to blister, delaminate, or even break loose from the surface. Water can also act to transport loose fibers away from the ACM. Subsequent evaporation of the water can leave a dry deposit of fibers which can then be released into the air. Evidence of water damage includes stains or discoloration's on the ACM or protective coverings, walls, and delamination or adhesive failure of the ACM. In some cases, the area of staining may be must smaller than the water damage itself.

A qualitative rating of the material's overall current condition; good, fair, or poor, was also assigned at this point.

Following the damage classifications, the potential of the material to become disturbed was examined. The likelihood that the suspect material could be disturbed in the future is related to (1) the frequency with which service workers need to work near or building occupants are in the vicinity of the material, (2) its location with respect to sources of vibration, and (3) the potential for air erosion. This examination was directed at friable materials and took into account the following factors:

Accessibility - Any ACM that is accessible can be disturbed. This includes any material that can be reached by building occupants or custodial/maintenance personnel, either directly or with equipment or other objects. Nearness of the ACM to heating, ventilation, lighting, and plumbing systems requiring periodic repair or maintenance is a primary cause of the disturbance. Accessibility to other building occupants, especially to students in schools, is another consideration, height above the floor is one measure of accessibility for this group of occupants.

<u>Potential for Contact</u> - The potential of a material to be disturbed or contacted is based on its accessibility as well as activities that occur or might occur in the material's surroundings. This involves an examination of the functional area's use, areas of high traffic or contact within that area, tasks that are normally performed in the area, and proximity of the ACM to those tasks.

Influence of Vibration - High levels of activity such as running and other athletic activities tend to create vibration which accelerates the fiber release process. Vibration from mechanical equipment, road vehicles, and airplanes or from sound waves (e.g., music or noise) may have a similar effect on the ACM. Thus, ACM on the ceiling of a room beneath a gymnasium or on the walls of a music room should be rated as subject to vibration. Likewise, ACM sprayed on ventilation ducts will likely be vibrated by fans or other equipment in the air handling system.

<u>Potential for Air Erosion</u> - An air stream may erode an ACM surface causing fibers to be released. Erosion may occur in an air plenum, in an air or elevator shaft, or downstream from a vent or register. The likelihood that erosion may occur is related to the speed with which the air strikes the surface. Thus, high speed air movement created by the piston

action of an elevator in a elevator shaft is of more concern that air moving at a relatively slow speed through a large air plenum.

Finally, these factors were compiled to produce an overall classification for the ACBM or suspected ACBM assumed to be ACM.

Classification of asbestos-containing material during the assessment was essential for proper selection of response actions.

A.4 RECOMMENDED RESPONSE ACTIONS

Recommendations for response actions were arrived at through the use of "Decision Trees". These flow charts are the proposed method for determining response actions in the USEPA draft document entitled "Guidance for Addressing and Managing Exposure to Asbestos in Buildings". These decision trees estimate the risks posed by the existing ACM and recommend response actions consistent with the AHERA regulations.

When implementing the response actions, parties responsible for final selection should remember that actions shall be sufficient to protect human health and the environment, but may also be the least burdensome method. Nothing in these recommendations should be construed as prohibiting or discouraging removal.

Recommended response actions have been selected for all ACM present within the facility. Number given as response actions in the following table are a general indication of the urgency or priority of the hazard involved and are referenced as follows:

- 1. Isolate area and restrict access. Remove as soon as possible.
- Include material in an O&M Program. Repair or remove as soon as possible, or reduce material's potential for disturbance.
- 3. Include material in an O&M Program. Repair or schedule removal when practical and cost effective, or reduce material's potential for disturbance.

- 4-5. Include material in an O&M Program. Repair or schedule removal when practical and cost effective. (Numbers indicate priority).
- 6-7. Include material in an O&M Program. Take preventative measures to reduce disturbance. (Numbers indicate priority).
- 8. Include in an O&M Program. Continue operations and maintenance until major renovation or demolition requires removal under NESHAPS or until hazard assessment factors change.

A.5 QUALIFICATIONS OF THE REPORT

This report presents the general description of various suspect hazardous or regulated materials identified in the building, and the general locations where these materials were observed. It is possible that other suspect materials are present within the building, but were inaccessible during our survey. If questions arise during the planning for renovation or construction projects as to the presence of identified or additional suspect materials, we should be notified in order to review the conditions and present recommendations.

This report has been prepared on behalf of and exclusively for the use of Roger, Lovelock & Fritz, Inc. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party or be used or relied upon by any other party, in whole or in part, without prior written consent.



Center for Training, Research and Education for Environmental Occupations certifies that

Shawn E. Brigham

has successfully met certificate requirements for the

Asbestos Abatement Refresher: Facility Survey and Building Systems (Reaccreditation for Inspector Under TSCA Title II/AHERA)

conducted

CERTIFICATE
NUMBER

January 15, 2002

by the

R020250-5038

CEUs: .4

University of Florida

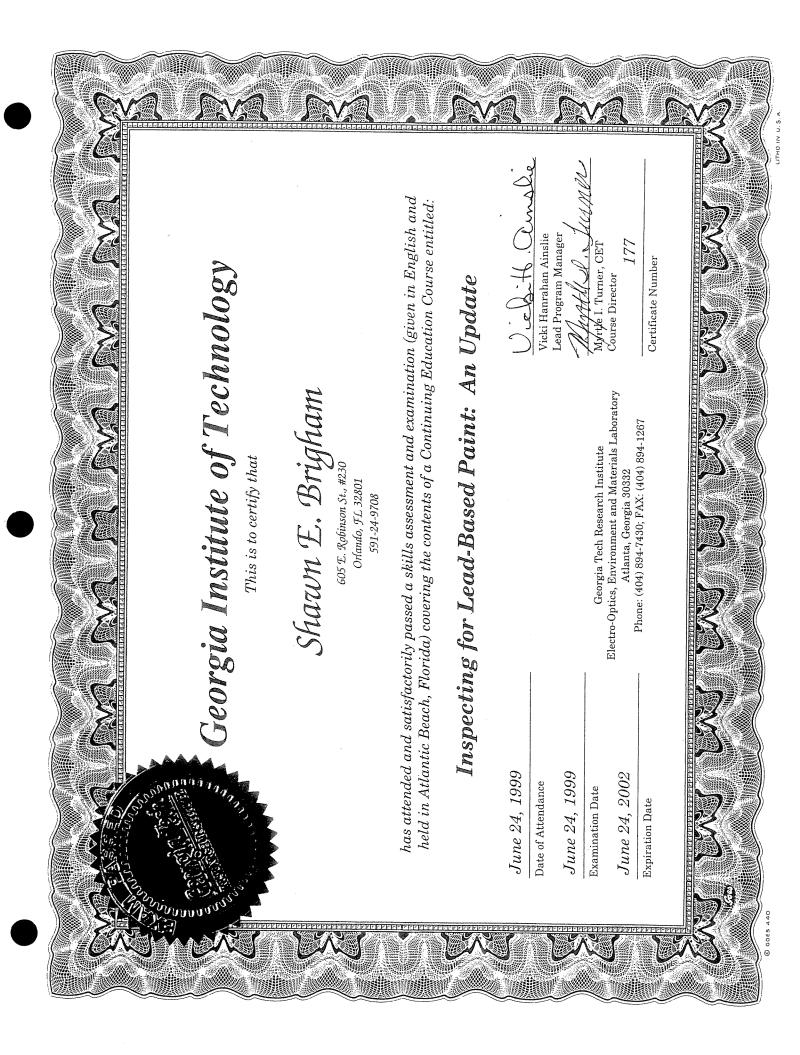
Initial exam passed: 6/5/91

EPA accreditation expires: January 15, 2003

SSN: 591-24-9708

Principal Instructor: Brian J. DuChene, P.E.

University of Florida TREEO Center, Asbestos Training Programs • 3900 S.W. 63rd Blvd., Gainesville, FL 32608-3800 • 352/392-9570





TREEO CENTER

Center for Training, Research and Education for Environmental Occupations certifies that

Paul Santone

has successfully met certificate requirements for the

Asbestos Abatement Refresher: Facility Survey and Building Systems (Reaccreditation for Inspector Under TSCA Title II/AHERA)

conducted

CERTIFICATE
NUMBER

March 5, 2002

by the

R020253-7452

CEUs: .4

University of Florida

Initial exam passed: 2/13/91

EPA accreditation expires: March 5, 2003

SSN: 145-60-9952

Medical Energy

Principal Instructor: Brian J. DuChene, P.E.



Center for Training, Research and Education for Environmental Occupations certifies that

Robert N. Frasard

has successfully met certificate requirements for the

Asbestos Abatement Refresher: Facility Survey and Building Systems (Reaccreditation for Inspector Under TSCA Title II/AHERA)

conducted

SERTIFICATE NUMBER

January 15, 2002

by the

R020250-7535

CEUs: .4

University of Florida

Initial exam passed: 10/14/98

EPA accreditation expires: January 15, 2003

SSN: 263-68-5800

Principal Instructor: Brian J. DuChene, P.E.



Center for Training, Research and Education for Environmental Occupations

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Brian J. DuChene

has successfully met certificate requirements for the

Asbestos Abatement Refresher: Management Planning

(Reaccreditation for Management Planner Under TSCA Title II/AHERA) conducted

CERTIFICATE

NUMBER

June 18, 2002

by the

R020261-1246

CEUs: 35

University of Florida

Initial exam passed: 10/21/88

EPA accreditation expires: June 18, 2003

SSN: 267-73-0340

Principal Instructor: Russell E. Stauffer, P.E.



THEO CENTER

certifies that

Brian J. DuChene

(605 E. Robinson St., Suite 230, Orlando, FL 32801) attended

Lead Abatement: Risk Assessment Training August 3-4, 2000

August 5-4, 2000 and is awarded this

Certificate of Course Completion

Certificate Number: R010157-0067 Expiration Date: August 4, 2003

Expiration Date: August 4, 2003 Social Security # 267-73-0340

CEU'S: Test Passed:

August 4, 2000

William T. Engel, Jr., PK.D.

Director